STATE FOREST LAND
ENVIRONMENTAL CHECKLIST

Purpose of Checklist:

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decided whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. *Questions in italics are supplemental to Ecology's standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/ watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at http://www.dnr.wa.gov under "SEPA Center." These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.*

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. *All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the forest practice application acres, or the actual timber sale acres.*

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Use of checklist for nonproject proposals:

Complete this checklist for nonproject proposals, even though questions may be answered " does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

A. BACKGROUND

1. Name of proposed project, if applicable:

   Timber Sale Name: **MODIFICATION** *Agreement #:* **30-077916**

2. Name of applicant: **Department of Natural Resources**

3. Address and phone number of applicant and contact person:

   Northwest Region
   919 North Township St.
   Sedro Woolley, WA 98284

   Contact Person: Candace Johnson
   Telephone: 360-856-3500

4. Date checklist prepared: **10/07/2005**

5. Agency requesting checklist: **Department of Natural Resources**

6. Proposed timing or schedule (including phasing, if applicable):

   a. *Auction Date:* **December 11, 2006**
   b. *Planned contract end date (but may be extended):* **9/30/2008**
   c. *Phasing:* **Does not apply.**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

   Timber Sale

   a. *Site preparation:* **Treatment to be assessed in 2-3 years.**
   b. *Regeneration Method:* **Hand-plant with conifer seedlings.**
   c. *Vegetation Management:* **Treatment to be assessed in 3-5 years.**
   d. *Thinning:* **Treatment to be assessed in 10-15 years.**

   Roads:
   WT-ML and WT-16 will remain open for future forest management activities.

   Rock Pits and/or Sale:
   See Road Plan. Onsite rock may be used for road construction, if rock sources are discovered along haul routes or within the sale area.

   Other:
   None.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

☐*303 (d) – listed water body in WAU:* ☐*temp* ☐*sediment* ☐*completed TMDL (total maximum daily load):*
☐*Landscape plan:*
☐*Watershed analysis:*
☐*Interdisciplinary team (ID Team) report:*
☒*Road design plan:* **Available at DNR Northwest Region Office**
☒*Wildlife report:* **Available at DNR Northwest Region Office**
☐*Geotechnical report:*
☐*Other specialist report(s):*
☐*Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):*
☒*Rock pit plan:* **Available at DNR Northwest Region Office**
☒*Other:* **Habitat Conservation Plan & Environmental Impact Statement, September 1997; State Soil Survey, 1992; Forest Resource Plan & Environmental Impact Statement, July 1992.**

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

☐*HPA* ☐*Burning permit* ☐*Shoreline permit* ☐*Incidental take permit* ☒*FPA #* _____ ☐*Other:*

11. Give brief, complete description of our proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include specific information on project description.)

a. Complete proposal description:

Considered Area: The proposal is in the west cascade western hemlock vegetation zone and is approximately 24.3 acres in size. The age of the stand is approximately 79 years and consists mostly of Douglas-fir and western hemlock. To the north, the area is bounded by a type 3 stream, to the south the area is bounded by a type 4 stream, the east is bounded by a nesting, roosting, foraging (NRF) management area and the west is bounded by a stand that was planted in 1987.

Sale Area: The sale area consists of 25 gross acres
0.5 acres of right of way (ROW)
0.7 acres of leave tree clumps
24.3 net acres

Estimated Volume: 1,635 mbf

Logging System: Ground-based and cable yarding

Landings: 3

Roads: see A.11.c.

Rock Pits and/or sales: The WT-14 hardrock pit (Sec. 34, Township 30 North, Range 07 East) will be expanded.

Special Forest Product Sales: None

Other Related Actions: None

b. Timber stand description pre-harvest (include major timber species and origin date), type of harvest, overall unit objectives.

Pre-harvest: The origin date of the proposed sale area is 1926. The percent species by volume is approximately 70% Douglas-fir, 23% western hemlock, 4% western redcedar, and 3% bigleaf maple and red alder. Average height of the stand is 168 feet, trees per acre roughly 410, and average diameter at breast height (DBH) for Douglas-fir is roughly 23 inches. There is natural reproduction of western hemlock scattered throughout the sale area and few snags.

Type of Harvest: The proposal is a regeneration harvest with 7% reserve trees. The preferred method of harvest system is ground-based with a shovel and optional cable yarding.

Unit Objectives: The overall objective for this proposal is to generate money for State Forest Board Transfer (01) and Charitable, Educational, Penal, and Reformatory Institutions Trust (06) while maintaining site productivity, protecting water quality, and providing and protecting wildlife habitat. The proposal meets and exceeds all of the guidelines and prescriptions set forth in the DNR Habitat Conservation Plan, Forest Resource Plan, and Forest Practices Rules and Regulations.

c. Road activity summary. See also forest practice application (FPA) for maps and more details. **See Road Plan.**

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		1,845	3.1	0
Reconstruction		1,737		0
Abandonment		395	0.5	0
Bridge Install/Replace	0			0
Culvert Install/Replace (fish)	0			0
Culvert Install/Replace (no fish)	4			

12. Location of proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist. *(See timber sale map. See also color landscape/WAU map on the DNR website http://www.dnr.wa.gov under "SEPA Center.")*

a. Legal description: **Township 30 North, Range 7 East, Section 34**

b. Distance and direction from nearest town (include road names):

The unit is located approximately 5.5 miles southeast of Granite Falls. From Granite Falls, travel approximately 1.8 miles take a left onto Scotty Road. Continue 0.9 miles to gate and beyond the gate take a right at the pit, which is approximately 0.8 miles from the gate. Take the next right onto the WT-ML. Follow the road 1.3 miles to the WT-14 rock pit and 0.4 miles to a left hand turn onto the WT-16 road. Go 0.3 miles to another left turn which takes you to the unit.

c. Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website http://www.dnr.wa.gov under " SEPA Center.")

WAU Name	WAU Acres	Proposal Acres
PILCHUCK MTN	*42,583*	*24.3*
Sub-basin 9	*1164*	*24.3*

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website http://www.dnr.wa.gov under "SEPA Center" for a broader landscape perspective.)

General Watershed Administration Unit (WAU) Information
Data taken from DNR Database 7-27-05

Name of WAU	Acres	DNR-Managed Acres	Other Acres	% DNR-Managed Land	% Other Land	Proposal Acres	% of Proposal in WAU
Pilchuck Mountain	*42,583*	*28,458*	*14,125*	*67%*	*33%*	*24.3*	*100%*

Majority of the land in the Pilchuck Mountain WAU is designated for timber resource use, and has been historically.

Past and Future DNR Activities in Pilchuck Mountain WAU
Data taken from DNR Database 7-27-2005

Pilchuck Mountain WAU	Estimated Acreage Harvested in Past 7 Years		Estimated Acreage for Future Harvests (FY 06-FY07)		Total Estimated Acreage Past and Future	
WAU Acres	*,1355 even-age*	*778 uneven-age*	*623 even-age*	*1,403 uneven-age*	*1,978 even-age*	*2,181 uneven-age*
% of WAU	*3%*	*2%*	*1%*	*3%*	*5%*	*5%*
% of DNR Acres	*5%*	*3%*	*2%*	*5%*	*7%*	*8%*

DNR-managed land lies mainly in the southeast two-thirds of the Pilchuck Mountain WAU. Past activities on DNR managed land have included timber harvesting, road building and abandonment, rock pit expansion, and silvicultural work. This proposal along with other currently considered timber harvests are planned in this WAU through the fiscal year 2007. The total estimated acreage of the past and future harvests through fiscal year 2007 is approximately 4,159 acres (15%) of 28,458 acres of DNR managed land in the WAU. Activities on DNR-managed land will follow Forest Practice Rules, HCP guidelines, and the Forest Resource Plan. These policies are designed to minimize environmental impacts. Approximately 4,500 acres of Natural Resource Conservation Areas (NRCA's) land are managed as natural areas by the DNR.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):

☒Flat, ☐Rolling, ☒Hilly, ☐Steep Slopes, ☐Mountainous, ☐Other:

1) General description of the WAU or sub-basin(s) (landforms, climate, elevations, and forest vegetation zone).

Comparison of WAU, Sub-basin, and Proposal area.
Data taken from DNR database 7-27-05

	Pilchuck Mountain WAU	Sub-basin 9	Proposal Area
Elevation (feet)	*277-5,302*	*534-2,361*	*1,040-1,240*
Precipitation (inches per year)	*40"-100"*	*50"-60"*	*50"-60"*
Acres in Rain on Snow Zone	*5,696*	*116*	*0*
High Soil Erosion Potential	*13%*	*0%*	*Medium to Low*
High Soil Mass Wasting Potential	*11%*	*52% (medium soil mass wasting potential)*	*Insignificant*

The Pilchuck River divides the Pilchuck Mountain WAU. It has a weighted average of 59 inches of precipitation per year. The western portion of the WAU is generally rolling terrain with occasional deep, incised gorges carrying major tributaries to the Pilchuck River. In this portion, elevations vary from 276 to around 1,300 feet above sea level and slopes average 10% to 40%. The central portion of the WAU is a river valley starting at the low elevations and rising through rolling, benchy terrain to steep mountainous terrain. Elevations in this portion range from 900 to 5,302 feet at the summit of Mount Pilchuck. Slopes average 40% to 55% with some in excess of 100%. Some of the tributaries here are also deep incised gorges. The eastern portion becomes increasingly steep though the elevations are lower than Mount Pilchuck.

The WAU contains two major vegetation zones, the western hemlock zone and the cascade subalpine forest complex. The western hemlock zone occurs in the lower elevations up to around 1,800 feet above sea level, and contains several conifer species such as Douglas-fir, western redcedar and western hemlock. The Cascade Subalpine Forest Complex occurs from 1,800 feet above sea level to the tree line of Mount Pilchuck and contains primarily Pacific silver fir, mountain hemlock and subalpine fir.

2) *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*

The proposal area lies in the southwest portion of sub-basin 9 of the Pilchuck Mountain WAU. The most significant difference between the proposal location and the general description of the Pilchuck Mountain WAU is the absence of steep or unstable slopes in the proposal area. See figure B-1-a-1above for more information.

b. What is the steepest slope on the site (approximate percent slope)?

Approximately 50%.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland. *Note: The following table is created from state soil survey data. It is a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.*

State Soil Survey #	Soil Texture or Soil Complex Name	% Slope	Acres	Mass Wasting Potential	Erosion Potential
1955	**ELWELL-OLOMOUNT-COMPLEX**	*15-30*	*23*	*Insignificant*	*Low*
1956	**ELWELL-OLOMOUNT-ROCK OUTCROP-COMPLEX**	*30-65*	*1*	*Medium*	*Medium*

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

1) *Surface indications:*

None Known.

2) *Is there evidence of natural slope failures in the sub-basin(s)?*
☒*No* ☐*Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:* **None Known.**

3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*
☒*No* ☐*Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:* **None Known.**
Associated management activity:

4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*
☒*No* ☐*Yes, describe similarities between the conditions and activities on these sites:*

5) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*

The road system was designed to permit the removal of all timber with ground-based equipment without operating on slopes greater then 25%. Cable yarding is optional from the WT-16 road on the slopes that are greater then 25% if the optional spur road is not constructed.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.
Approx. acreage new roads: **1 ac** *Approx. acreage new landings:* **0.5 to 1 ac** *Fill source:* **Native Material**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Some erosion could occur during road construction and log transportation, but specific measures are employed during road building and timber harvest to minimize the amount of erosion possibility. Road maintenance and reforestation are some of the mitigating techniques.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

Approximately 1 acre of new surface will be gravel road. Acre total does not include already constructed roads that will be used (see road plan), less than 1 % of the sale area.

h. Propose measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)

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To control road related erosion, road pioneering will not generally extend more than 500 feet beyond completed construction, culverts will be installed concurrently with construction of the road subgrade, and culvert outlets will not terminate on unprotected soils. All exposed soils resulting from road construction, reconstruction, and abandonment will be revegetated.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust *from truck traffic, rock mining, crushing or hauling,* automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

No emissions are anticipated other than minor amounts of equipment exhaust and road dust created by log hauling activities.
If slash is burned, it will be burned in adherence to Washington State's Smoke Management program.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None Known.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

If slash is burned, it will be burned in adherence to Washington State's Smoke Management program.

3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See timber sale map and forest practice base maps.)*

a) Downstream water bodies:

There are two wetlands northwest of the sale area draining into a Type 3 stream. There is a Type 4 stream south of the sale area. Both streams flow into Worthy Creek, which then flows into the Pilchuck River.

b) Complete the following riparian & wetland management zone table:

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in Feet (per side for streams)
Unnamed stream	*3*	*1*	*210*
Unnamed stream	*4*	*1*	*100*

c) List RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures, and wind buffers.

There will be no harvesting in the RMZ's. Road building measures, such as ditching and use of culverts, will take place to protect water quality. Trees will be felled towards the roads and away from the streams. Stream buffers will also be used to protect the streams. No wind buffer was applied to this stream. Buffer size can be seen in table 3-a-1-b.

2) Will the project require any work over, in, or adjacent to (within 200 feet) to the described waters? If yes, please describe and attach available plans.
☐*No* ☒*Yes (See RMZ/WMZ table above and timber sale map.)*
Description (include culverts):

Timber harvesting will occur adjacent to (within 100 feet) of the type 4 stream. Trees will be felled away from the stream towards the road. There will be no timber harvesting within 210 feet of the type 3 stream.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. *(Include diversions for fish-passage culvert installation.)*
☒*No* ☐*Yes, description:*

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
☒*No* ☐*Yes, describe location:*

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.
☒*No* ☐*Yes, type and volume:*

7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?

Surface erosion and/or mass wasting potential can be found in tables B-1-a-1 and B-1-2-c above. There is very little potential for eroded material to enter surface waters due to stream buffers.

8) *Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?*
☐*No* ☒*Yes, describe changes and possible causes:* **Erosion and mass wasting is occurring on steep inner gorge slopes facing the Pilchuck River channel and its major tributaries as streamflow undercuts the slopes. This erosion is likely contributing to the minor stream channel changes observed.**

9) *Could this proposal affect water quality based on the answers to the questions 1-8 above?*
☒*No* ☐*Yes, explain:*

10) *What are the approximate road miles per square mile in the WAU and sub-basin(s)?*

- **WAU: 3.9 square miles**
- **Sub-basin 9: 4.1 square miles**
- **Total: 8 square miles**

Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?
☒*No* ☐*Yes, describe:*

11) *Is the proposal within a significant rain-on-snow (ROS) zone? If not, **STOP HERE** and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.*
☒*No* ☐*Yes, approximate percent of WAU in significant ROS zone.*
Approximate percent of sub-basin(s):

12) *If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?*

The proposal is not within the significant ROS zone.

13) *Is there evidence of changes to channels associated with peak flows in the WAU or sub-basin(s)?*
☐*No* ☒*Yes, describe observations:* **Although there is no known evidence of increased peak flows, they may have occurred as a result of decades-old, large-scale harvest activities in the WAU. It is difficult to separate the effects of peak stream flows from the effects of mass wasting. The effects are interrelated and often occur during the same storm events.**

14) *Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.*

Due to the protective measures described in B-1-d-5, B-1-h, and B-3-a-1, this proposal should not contribute to peak flows in the WAU or sub-basin 9.

15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*
☒*No* ☐*Yes, possible impacts:*

16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*

None needed.

b. Ground *Water*:

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

Water will be channeled through ditches and culverts emptying onto the forest floor increasing surface saturation in a local area, but will not significantly increase ground water.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Small amounts of oil and other lubricants could be discharged inadvertently as a result of heavy equipment use. No lubricants will be disposed of onsite.

3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*
☒*No* ☐*Yes, describe:*

a) Note protection measures, if any.

None.

c. Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Runoff from the road surfaces will be collected and diverted to stable areas on the forest floor through the uses of ditches, culverts, and energy dissipaters.

2) Could waste materials enter ground or surface waters? If so, generally describe.

Small amounts of oil and other lubricants could be discharged inadvertently as a result of heavy equipment use.

a) Note protection measures, if any.

No chemicals will be disposed of on-site.

d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:
(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)

See B-3-c-1 and B-3-c-2-a above.

4. Plants

a. Check or circle types of vegetation found on the site:

☒deciduous tree: ☒alder, ☒maple, ☐aspen, ☒*cottonwood,* ☐*western larch,* ☐*birch,* ☐other:
☒evergreen tree: ☒*Douglas fir,* ☐*grand fir,* ☐*Pacific silver fir,* ☐*ponderosa pine,* ☐*lodgepole pine,* ☒*western hemlock,* ☐*mountain hemlock,* ☐*Englemann spruce,* ☐*Sitka spruce,* ☒*red cedar,* ☐*yellow cedar,* ☐other:
☒shrubs: ☒*huckleberry,* ☒*salmonberry,* ☒*salal,* ☒*other:* **sword fern**
☐grass
☐pasture
☐crop or grain
☒wet soil plants: ☐cattail, ☐buttercup, ☐bullrush, ☐skunk cabbage, ☒*devil's club,* ☐other:
☐water plants: ☐water lily, ☐eelgrass, ☐milfoil, ☐other:
☐other types of vegetation:
☐*plant communities of concern:*

b. What kind and amount of vegetation will be removed or altered? *(See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)*

1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See landscape/WAU and adjacency maps on the DNR website at: http://www.dnr.wa.gov under "SEPA Center.")

- **To the south, a mixed conifer stand was planted in 2003.**
- **To the north, a mixed conifer stand was planted in 1998.**
- **To the west, a mixed conifer stand was planted in 1987.**
- **To the east, a mixed conifer stand that is approximately 65-75 years old.**

2) Retention tree plan:

A total of 7% of trees greater than 12 DBH are to be retained within the proposal area. There are 5 keave tree clumps located in various locations throughout unit with a few selected scattered trees. The leave tree clumps are protecting snags for wildlife. Reserve trees are the dominant to co-dominate trees that contain structural characteristics important to wildlife, and/or show wind firmness.

c. List threatened or endangered *plant* species known to be on or near the site.

None Known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

Leave trees will be left on site in both clumped and scattered patterns. Douglas-fir and western redcedar seedlings will be planted after completion of sale. Exposed soils due to road building will be revegetated.

5. Animal

a. Circle or check any birds animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site:

birds: ☐hawk, ☐heron, ☐eagle, ☒songbirds, ☐*pigeon,* ☒other: NRF habitat to the east of proposal area.
mammals: ☒deer, ☒bear, ☐elk, ☐beaver, ☒other: **Bobcat**
fish: ☐bass, ☐salmon, ☐trout, ☐herring, ☐shellfish, ☐other:
unique habitats: ☐*talus slopes,* ☐*caves,* ☐*cliffs,* ☐*oak woodlands,* ☐*balds,* ☐*mineral springs*

b. List any threatened or endangered species known to be on or near the site *(include federal- and state-listed species).*
None known.

c. Is the site part of a migration route? If so, explain.
☒*Pacific flyway* ☐*Other migration route:* *Explain if any boxes checked:*

All of Washington State is considered part of the Pacific flyway. No adverse impacts are anticipated as a result of this proposal.

d. Proposed measures to preserve or enhance wildlife, if any:

1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

See B-4-b-2. Leave trees are designated in either clumps or individually scattered throughout the proposal area to promote structural diversity and wildlife habitat. Several leave tree clumps on site are protecting snags for wildlife purposes.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Does not apply.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

Does not apply.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Does not apply.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

There is minimal hazard from heavy equipment operations. There is a slight chance of hydraulic or oil spills from equipment operating on the site. There is also a potential fire hazard if operations occur in moderate to severe fire weather conditions during summer months.

1) Describe special emergency services that might be required.

Does not apply.

2) Proposed measures to reduce or control environmental health hazards, if any:

Safe operation of all equipment will be encouraged. Industrial restrictions/precaution levels regarding forest fire protection will be enforced. The timber purchaser will be required to have fire suppression equipment on site during the restricted fire season while harvest activity is ongoing.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Harvest equipment and log trucks.

2) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.

Noise from road construction and harvest activity will be present in the immediate vicinity of this proposal during operations. Noise from log hauling will be present along the haul routes during operations. Noise would come from this site from early morning until late afternoon until harvest activity has been completed.

3) Proposed measures to reduce or control noise impacts, if any:

None. Noise associated with harvest and road construction activity will be minimal anywhere but in the immediate vicinity of the proposal. Harvest activity and log hauling are historic activities in the area and noise should not be present above customary levels.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? *(Site includes the complete proposal, e.g. rock pits and access roads.)*

Forest Management.

b. Has the site been used for agriculture? If so, describe.

No.

c. Describe any structures on the site.

None.

d. Will any structures be demolished? If so, what?

No.

e. What is the current zoning classification of the site?

Commerical Forest Land.

f. What is the current comprehensive plan designation of the site?

Forestry.

g. If applicable, what is the current shoreline master program designation of the site?

Does not apply.

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Does not apply.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

This project is consistent with current comprehensive plans and zoning regulations.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

Does not apply.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

Does not apply.

c. Proposed measures to reduce or control housing impacts, if any:

Does not apply.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?

Does not apply.

b. What views in the immediate vicinity would be altered or obstructed?

None.

1) Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?
☒*No* ☐*Yes, viewing location:*

2) Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?
☒*No* ☐*Yes, scenic corridor name:*

3) How will this proposal affect any views described in 1) or 2) above?

None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

Does not apply.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Does not apply.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

Does not apply.

c. What existing off-site sources of light or glare may affect your proposal?

Does not apply.

d. Proposed measures to reduce or control light and glare impacts, if any:

Does not apply.

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

No designated recreational opportunities in the immediate vicinity. Informal use may include hunting and ORV use.

b. Would the proposed project displace any existing recreational uses? If so, describe:

Use of the proposal area by other users may be limited during the course of operations due to safety/security concerns. No permanent displacement of existing use will occur as a result of this proposal.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None known.

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

None known.

c. Proposed measures to reduce or control impacts, if any: **Does not apply.**
(Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.)

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The proposal area is accessed through the Scotty Road via the Menzel-Lake Road approximately 5.5 miles southeast from Granite Falls.

1) Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?

No.

b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

No.

c. How many parking spaces would the completed project have? How many would the project eliminate?

None.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

1) How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?

Apart from log hauling traffic during the course of operations, this proposal will have no impact on the overall transportation system in the surrounding area.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

None.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

0.01 trips per day (average of four trips a year) for management purposes, for the first 5-10 years after the completion of the proposal.

g. Proposed measures to reduce or control transportation impacts, if any:

Safe vehicle operations will be encouraged.

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

Access will be restricted as needed during periods of extreme fire danger.

16. Utilities

a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

Does not apply.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Does not apply.

C. **SIGNATURE**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Completed by: _____ Boulder Unit Forester

Date: 12/07/05 Title

Reviewed by: _____ Cascade Dist Mgr.

Date: 11/16/05 Title

Approved by: _____

Date: _____ Title